



406676

(1)

Date	Material	Cause / Result	Report Received
4/22/90	phenol	- a discharge of contaminated rain water accumulated in a secondary containment area	5/18/90
April, 90	phenol	<p>6.24 ug/l (4.0 ug/l mon Aug)</p> <p>18 ug/l (9 ug/l D. max.)</p> <p>24 hr comp sample</p> <ul style="list-style-type: none"> <li>- Modified procedure to prior to discharge from 2° containment area analytical test done</li> <li>- Review and update process procedures associate with potential phenol discharge.</li> </ul> <p>[ Do they do analysis prior to discharge, currently? ]</p> <p>[ Do they changed any process procedure? ]</p> <p>No immediate notification</p>	
7/4/90	diethylhexylamine	<p>Diethylhexylamine leaked into the condensate</p> <p>amount (?) side of the reboiler and enter the sewer</p> <p>② oil layer at the outfall</p> <p>* lasted for 24 hours. Switch to the alternate pond.</p> <p>on 7/5/90 called contractor to remove oil layer</p> <p>Repaired reboiler and will transmit written reminder to the staff to skim the pond on off shifts</p> <p>[ No immediate notification ]</p> <p>[ No proper implementation of PZPP among the staff. ]</p> <p>No immediate clean-up process → last for 24 hr oil layer</p>	<p>7/9/90</p> <p>7/18/90</p>
7/25/90 8:15 AM	Sec. Butylamine 10 gallons	<p>Drained a heel of material from the rework sump. A pH meter located in the rework sump was not working</p> <p>The pH neutralization system was ineffective due to low water flow</p>	<p>7/25/90, 11:45 AM</p> <p>written 7/26/90</p>

(2)

7/25/90 continuus.

The pH meter in the sump will be repaired.

Adjustment will be made the pH neutralization water system during periods of low plant flow.

[dumping a heel of material is it permit vibration? → Is it normal procedure (2)?]

What is follow-up for the above repair status?

7/24/90

Sec-Butylamine/water

30 gallons

(1) Operator drained wash water from 21141 intercolumn pumps into the noncont. cooling water sewer system.

(2) Written procedure will be instituted. Drain the equipment located in/outside of the process to the rework sump.

[Is it done? A copy of written procedure request.]

7/24/90

11:15

p.m.

↓

written:

7/26/

8/1/90

Ethylamine/water

30 gallons

(1) Relief valve was leaking through on 21120 Column Reboiler. The pressure overloaded the process scrubber and released the material into non-contact sewer.

(2) Relief valve was repaired and

additional <sup>during startups</sup> supervisory assistance will be added /

[Is it done putting additional supervisory during startups?]

8/5/90

1:00 A.M.

(3)

8/4/90 9:30 p.m	Ethylamine / H <sub>2</sub> O 500 gallon of 20%	<p>① Due to fault of operator, 21121 column was overpressurized and caused released the material from the scrubber stack into the noncontact sewer</p> <p>② will train the operator and solid covers will be installed on non-contact sewer</p> <p>Should the company looks preventive method for eliminating discharge of process H<sub>2</sub>O/spill into the non contact sewer.</p> <p>Questionable regarding operator training</p>	8/4/90 1:00 A.M 8/7/90
8/17/90 10:50 p.m	Hydrochloric Acid 500 gallon of 20%	<p>① A HCl-cooler failed at process 22 caused <math>\frac{30 \text{ min below } 6.0 (= 3.9)}{55 \text{ min below } 6.5}</math> <sup>↑ vibration</sup></p> <p>② will investigate the cause of failure, will replaced <del>the</del> the cooler before start up</p> <p>No follow-up for the cause of failure of the cooler.</p>	8/17/90 1:00 P.M
11/14/90 10:50 A.M	Ethylene Oxide 20-30 gallons but only 1 gallon → to the sewer	<p>① Overfilled the storage tank and a high level alarm was out of order.</p> <p>② Most of products were removed by pumping less than 1 gallon went into the sewer</p> <p>Why did not contact our office 11/14/90 regular office hr → caused delay notification.</p>	11/14/90 1:00 P.M three PEAK

(4)

notification  
Date

Date	Parameter		
12/3/90	pH = 5.7 for 18 min	① caused by <del>a</del> failure of the caustic control valve or a pluggage in the caustic supply line ② will install pressure gauges on the caustic and acid supply lines	
12/23/90	phenol 19 $\mu\text{g/l}$ (D. max) 6.3 $\mu\text{g/l}$ (M. Avg)	① suspected an analytical problem w/ the contract lab ② will use a new contract lab	
2/2/91 3:30 A.M.	Methane Sulfonic acid 50 gallons ↓ 10-20 gal. entered the floor	① overflowed a methane sulfonic acid tank → failure of high level alarm due to improper calibration. ② caused pH = 4.3 for 60 minutes ③ recalibrate the level of alarm	2/2/91 4:45 A.M.
1/24/91	BOD5 3142 lbs/d (vs 2773 lbs D. max)	① a leak from reboiler contaminated <del>cool</del> the high pressure condensate tank due to improper shutdown by inexperienced operator. ② Reboiler has been repaired + operators have been trained. Engineering will study reboiler design to prevent future leaks.	2/5/91